

ABSTRACT OF THE DISCLOSURE

An apparatus for detecting a chemical agent, capable of increasing a detection speed of a chemical agent, decreasing a false alarm rate, pinning down the kind of a chemical agent, and meeting specifications for unattended continuous monitoring equipment suitable for detecting sarin or soman. This detection apparatus comprises a sample introduction unit for introducing a sample, an ionizing unit for positively ionizing the sample from the sample introduction unit, a mass spectrometer unit for analyzing ions of the sample, and a computer for analyzing data, and is best suited for identifying a dangerous substance by detecting signals peculiar to chemical agents, such as sarin or soman.